

# Frequently Asked Questions (FAQ)

VeO<sub>2</sub>x

This Frequently Asked Questions document has been designed to help answer some of the most asked questions by people newer to rapid oxygen control chambers for mice, rats and small animal models; and address some VeO<sub>2</sub>x - specific questions.

## Q 1. What is the VeO<sub>2</sub>x?

The VeO<sub>2</sub>x is a bench-top hypoxia incubator made specifically for small animal models (ie mouse and/or rat) that can precisely maintain needed oxygen conditions down to 0.1% oxygen. While the VeO<sub>2</sub>x systems rapid O<sub>2</sub> ramping makes it ideal for chronic intermittent hypoxia studies, it is still an excellent option for all other hypoxia-based animal research.

## Q 2. How does VeO<sub>2</sub>x differ from other hypoxia workstations?

The VeO<sub>2</sub>x is an affordable animal hypoxia chamber that effectively controls and maintains O<sub>2</sub> levels. Its ability to cycle various oxygen conditions is unparalleled in both user control, functionally and response. The ergonomic chamber is compact enough that it can be placed on any ordinary lab bench and needs no extra customization to work effectively. Finally, the innovative touch screen provides the user an easy to use platform to set up complex experiments in the matter of minutes.

## Q 3. How quickly can the VeO<sub>2</sub>x ramp up and down O<sub>2</sub> levels?

These vary based on gasses being used, but assuming 35% O<sub>2</sub> in N<sub>2</sub>, the **31L chamber** can be ramped down from 20.9% to 6% in 15 seconds and ramped up from 6% to 20.9% in 35 seconds. Similarly, the **66L chamber** can ramp down from 20.9% to 6% in 30 seconds and ramp up from 6% to 20.9% in 45 seconds. Ramping up and down can also be done slowly over a maximum time of 5 minutes in the VeO<sub>2</sub>x. The user has full control to choose the ramping speed that best fits their study.

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## VeIO<sub>2</sub>x

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### Q 4. Are gloves necessary to operate the VeIO<sub>2</sub>x?

Wearing gloves represents good laboratory practice with all lab bench work, but there is no requirement for the user to wear them.

### Q 5. How can I clean the VeIO<sub>2</sub>x?

The floor and walls of the VeIO<sub>2</sub>x should be disinfected and cleaned using 70% ethanol or isopropanol between each use. It is recommended that a deep clean is done every 3-6 months. The deep clean is explained in the user manual and is more extensive in nature.

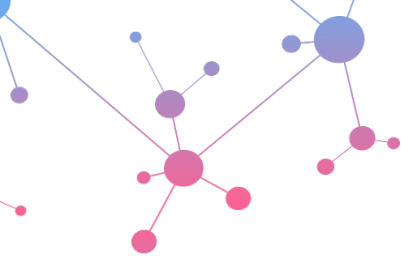
### Q 6. What gases are required to operate VeIO<sub>2</sub>x?

Two gasses are needed for operation. First, laboratory grade quality 100% nitrogen is needed to lower O<sub>2</sub> levels. Second, compressed air or O<sub>2</sub> in N<sub>2</sub> or 100% O<sub>2</sub> can be used. Choosing this depends entirely on the application.

### Q 7. Can I access the trace data displayed on the touch-screen?

Yes, this data is automatically and continuously stored to internal memory for 2 hours but will be continuously saved to an external USB media if attached. The internal memory can support approximately 2 hours of continuous recordings, at which point old data files will be overwritten.

to 5 kg. The user can place animals outside of the scan area if they only want to scan and collect data from a particular region of interest (ROI).



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## VelO<sub>2</sub>x

Rapid oxygen control chambers for mice, rats and small animal models

